

AP Precalculus

Major Text

AP Precalculus (11th edition), Demana, Waits, Foley, Kennedy, Gorsuch and Phelps.

Course Overview

AP Precalculus is a college level rigorous course to prepare students for college-level calculus.

Prerequisites

Students should have completed Algebra 1, Geometry, and Algebra 2. Students should be familiar with functions including those that are linear, polynomial, rational, exponential, logarithmic, trigonometric, and inverse trigonometric. In particular, before studying precalculus, students must be familiar with the properties of functions, the algebra of functions, and the graphs of functions. Students must also understand the language of functions (domain and range, periodic, zeros, intercepts, and so on) and know the values of the trigonometric functions of the numbers 0, $\pi/6$, $\pi/4$, $\pi/3$, $\pi/2$, and their multiples.

Course Outline and Description

Unit 1: Polynomial Functions Rational Functions

Unit 2: Rational Functions

Unit 3: Exponential Functions

Unit 4: Logarithmic Functions

Unit 5: Trig Functions

Unit 6: Polar Functions

Unit 7: Function Involving Parameters

Unit 8: Vectors

Unit 9: Matrices

Course Assessment

Nine Weeks Grade = 60% (Tests) + 40% (Quizzes/Daily)

1st Semester Grade = (1st 9 weeks + 2nd 9 weeks) ÷ 2 x 80% + Semester Exam x 20%

2nd Semester Grade = (3rd 9 weeks + 4th 9 weeks) ÷ 2

Exam Exemptions

A final exam worth **20% of the semester average** will be administered for every high school course except Study Hall/Study Skills. Exams are given during the last few days of each semester. The specific exam schedule will be shared with students and parents at the beginning of each semester.

Students who meet the following eligibility criteria may elect to exempt the spring semester exam in any non-tested* high school course (*qualifying seniors may elect to exempt both fall and spring semesters*):

- Semester average of 85 or above in the course

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- 5 or fewer excused absences - no unexcused absences
- No more than one disciplinary offense resulting in ISS
- No disciplinary offense resulting in out of school suspension - no OSS

Students may elect to take a semester exam in an effort to improve their grade in a course, even if they are eligible to be exempt. An exam that is taken for this purpose will not count against the student.

**Semester exams cannot be exempted for courses with an associated Ga Milestones End of Course Assessment, Advanced Placement Exam, or End of Pathway Assessment. Final exams in dual enrollment courses are under the jurisdiction of the post-secondary institution and are not eligible for exemption through Lee County High School.*

Students will only be permitted to make up a missed exam if the **absence is approved in advance by the school principal** (*requests must be submitted in writing at least one week before the exam*) or if the exam is **missed due to a last minute reason that would constitute an excused absence**. In instances where a student is eligible to make up a missed exam, the student must attend school to take the exam on the following teacher workday. See below for specific details:

- **1st Semester Make Up Day:** Tuesday, January 5, 2027 at 8:00 AM
- **2nd Semester Make Up Day for Underclassmen:** Thursday, May 27, 2027 at 8:00 AM
- **2nd Semester Make Up Day for Seniors:** Thursday, May 20, 2027 @ 8:00 AM

Note: Senior exams are scheduled earlier than exams for underclassmen due to graduation.

Materials Required

1. TI-84 Plus or TI-84 Plus CE (a class set is available to use in class)
2. 3-ring binder
3. Planner
4. Notebook paper
5. Pencils only

****Project supplies will be announced as needed**

Classroom Rules and Expectations

TECHNOLOGY:

1. **No cell phones or ear devices** (headphones, earbuds, earpods, etc.)
2. Bring your supplies to class every day.
3. Be on time, attentive and involved.
4. Be respectful to everyone.
5. Put all trash in the trash can as you leave the classroom.
6. No late work will be accepted

Extra Help

Extra help is available before/after school by appointment.

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Make-up Work & Late Policy

1. All make-up work is to be completed and tests/quizzes scheduled within three days of returning to school. If you are absent the day an assignment is due, it should be turned in the day you return. Please see me to schedule make-up tests and quizzes.
2. It is **your** responsibility to get make-up work. Please let me know if you have any questions.
3. NO late work will be accepted.

Academic Integrity

Students are expected to submit original work, give proper credit for the ideas and contributions of others, adhere to copyright guidelines, and avoid plagiarism in all forms. The use of unauthorized technology or resources in a testing environment is strictly prohibited. Instances of cheating, plagiarism, or falsification of work will be addressed in accordance with the Lee County School System Student Code of Conduct and may result in academic and/or disciplinary consequences.